

SMIRNOV, B. P.

"Light-inducing activation of amino acids in chloroplasts."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

Inst of Biology, Petrozavodsk.

SMIRNOV, B.P.; RODIONOVA, M.A.

The effect of light on the incorporation of amino acids into proteins, nucleic acids and lipids of chloroplasts in vitro. Biokhimiia 29 no.3: 386-392 My-Je '64. (MIRA 18:4)

1. Laboratoriya biokhimii lipidov Instituta biologii Petrozavodskogo gosudarstvennogo universiteta, Petrozavodsk.

SPRYSKOV, A.A.; SMIRNOV, B.P.

Syntheses based on polychlorobenzenes. Part 1. Derivatives of  
2,4, 5-trichlorobenzoic and 2,4,5-trichlorophenylacetic acids of  
1,2,4-trichlorobenzene. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8  
no.2:254-257 '65. (MIRA 18:8)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra  
organicheskoy khimii.

23(

SOV/77-4-3-12/16

AUTHOR: Smirnov, B.R. and Moshkovskiy, Yu.Sh.

TITLE: Relations Between the Suppression of Sensitizer  
Fluorescence With Green Pinacryptol and Photographic  
Activity

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinemato-  
grafii, 1959, Vol 4, Nr 3, pp 234-235 (USSR)

ABSTRACT: The authors report on a number of experiments carried  
out to show the fluorescence of erythrosine and some  
other photographic sensitizers and the suppression of  
this phenomenon with green pinacryptol. During in-  
vestigation, the sensitizers were in an adsorbed  
state. In all cases fluorescence was suppressed. The  
authors provide some details on a quantitative in-  
vestigation of the system erythrosine - green pina-  
cryptol in a gelatine emulsion. Graph 1 shows the de-  
pendence of the relative fluorescence yield of ery-  
throsine and the relative light sensitivity of this

Card 1/2

S/190/62/004/011/005/014  
B119/B186

AUTHORS: Korolev, G. V., Smirnov, B. R., Bolkhovitinov, A. B.

TITLE: Polymerization in highly viscous media and three-dimensional polymerization. IV. Study of free radical recombination in polyacrylate ester glasses by the electron paramagnetic resonance method

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 11, 1962,  
1660 - 1664

TEXT: Recombination of macroradicals at 50 - 100°C by the e.p.r. method was studied with a view to determining the specific features of polymerization kinetics in a completely structurized three-dimensional polymerization system. The recombination rate constants  $k_t$ , the activation energies and the pre-exponential factors were determined for the following three types of polyacrylate esters: MGF-9 (MGF-9), MDF-1 (MDF-1), and TGM-3 (TGM-3). Macroradicals in these esters may be considered being some kind of polymer fragments of the three-dimensional structure with free valencies. It has been shown that, if all other conditions remain un-

Card 1/2

Polymerization in highly viscous...

S/190/62/004/011/005/014  
B119/B186

changed,  $k_t$  increases with the increasing length and resulting greater flexibility of the oligomeric chains that form the three-dimensional lattice of the glassy polymer. The autoacceleration in the curing of the polyacrylates has been found to be associated with a decrease to the  $10^5$ th to  $10^6$ th part of  $k_t$  during the course of the reaction, which takes place from near-zone degree of conversion to high degrees of conversion. There are 3 figures and 1 table. ✓

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: June 19, 1961

Card 2/2

1. ... ..  
... .. in highly ... ..  
... .. Part 7. ... ..  
... .. (MIRA 10:1)

2. ... ..

L 19801-65 ENT(m)/EPP(c)/EPR/EWP(j)/T Pc-h/Pr-h/Ps-h RPL/ASD(m)-3/AFETR MM/  
RM

ACCESSION NR: AP5003610.

S/0190/64/006/007/1256/1260

AUTHOR: Korolev, G. V.; Smirnov, B. R.; Bashkirova, S. G.; Berlin, A. A.

TITLE: Polymerization in highly viscous media and three-dimensional polymerization. VIII. Determination of the rate constants of initiation of radical polymerization by certain peroxides and azo initiators in incompletely set dimethacrylatebutylene glycol

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 7, 1964, 1256-1260

TOPIC TAGS: polymerization, organic azo compound, polyester plastic, acrylic plastic, organic oxide

ABSTRACT: The rate constants of initiation and decomposition in the thermal decomposition of benzoyl peroxide, dicyclohexyl peroxydicarbonate, and azobis-isobutyronitrile, in 1-4% by weight concentrations in dimethacrylate-butylene glycol, set to a degree of 40-70%, were measured. It was found that the values of the initiation rate did not depend on the initial concentration of the initiator. This independence indicated that no chain decomposition occurred under the reaction conditions, and only a monomolecular process took place. The establishment that the initiation rate does not depend on the degree of conversion of the polyester acrylate was additional

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L 19801-65

ACCESSION NR: AP5003610

evidence of the monomolecular mechanism of the decomposition of initiators in incompletely set polyester acrylate glasses with residual double bonds. It was found that the activation energies of initiation by the investigated organic peroxides coincide with the activation energies of decomposition of the corresponding initiators in benzene; the preexponential factors of initiation were approximately 2.5 times lower than the preexponential factors of decomposition. The efficiency of initiation by peroxide initiators was  $\sim 0.3$ , which is only slightly less than the theoretical value of 0.5 for the liquid phase, calculated on the basis of the theory of the "cage effect." The efficiency of initiation by azo-bis-isobutyronitrile was approximately 10 times lower. Orig. art. has 2 forms., 1 graph and 4 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 29Jul63

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 013

OTHER: 007

JPRS

Card 2/2

KOROLEV, G.V.; SMIRNOV, B.R.; MAKHOMINA, L.I.

Use of the electron paramagnetic resonance method for determining the rate constant of chain growth in the polymerization of polyacrylic esters. Vysokom. soed. 7 no.8:1417-1421 Ag '65. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR.

L 44589-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6015679 (A) SOURCE CODE: UR/0413/66/000/009/0078/0078

INVENTOR: Korolev, G. V.; Smirnov, B. R.; Yarkina, V. V.; Berlin, A. A.

ORG: none

TITLE: Preparation of formulations which can be polymerized when exposed to light.  
Class 39, No. 181300 ✓

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 78

TOPIC TAGS: photopolymerization, polymerization

ABSTRACT: This Author Certificate introduces a method of preparing formulations suitable for photopolymerization. The formulations contain a polymer base, a compound that can be polymerized and a polymerization initiator. To stabilize the material and to plasticize it temporarily during processing, the compound containing in its chain groups  $\begin{array}{c} | \\ -C-S-C- \\ | \end{array}$  is suggested as suitable for polymerization. [LD]  
[Translation]

SUB CODE: 11/ SUBM DATE: 25Feb65/

Card 1/1 POM

UDC: 771.531.678.745.6:66.095.265

MEL'TSER, B.S.; SMIRNOV, B.S.

Introducing progressive work methods into the Mirgorod Test  
Drilling Office of the Petroleum and Gas Prospecting Trust  
of Poltava Province. Razved. i okh.nedr 31 no.4:53-54  
Ap '65. (MIRA 19±1)

1. Mirgorodskaya kontora razvedochnogo bureniya.

TANTSUYURA, Aleksey Andronikovich; USTINSKIY, Aleksandr Andreyevich;  
UPENDIK-UMANSKIY, Grigoriy Makarovich; SMIRNOV, Boris Semenovich;  
Pogodin, A.M., inzhener, redaktor; YUDZON, D.M., tekhnicheskii  
redaktor.

[Improved system of radio communication on trains using ZhR-1  
radio stations] Usovershenstvovannaya sistema poezdnoi radio-  
svyazi s primeneniem radiostantsii ZHR-1. Moskva, Gos.transp.  
zhel.-dor. izd-vo 1955. 143 p. (MLRA 8:11)  
(Radio--Installation on trains)

SMIRNOV, B.S.

New standards for bathroom water heaters. Vod. i san.tekh. no.1:36  
Ja '59. (MIRA 12:1)  
(Water heaters--Standards)

SMIRNOV, B.S.

Single bath method for the waterproofing of cotton fabrics.  
Tekst.prom. 20 no.3:70-71 Mr '60. (MIRA 14:5)

1. Zaveduyushchiy khimicheskoy laboratoriyey kombinata "Bol'shevik".  
(Waterproofing of fabrics)

MELIKOV, N. A.; SM. 17.12.58.

Expertise in the work of the Bureau of Economic Analysis of  
the General Office of Prospecting and Mining. Razved. 1 shk.  
near 30 m. 9.52-58 S 162. VLM 17.12

1. Kirgorodskaya kontora razvedochnogo bureniya.



SMIRNOV, B. V.

PA 171T30

USSR/Electricity - Distribution Networks Oct 50  
Communication, Power-line

"Means of Communication in High-Voltage Rural Distribution Networks," N. A. Ul'yanovskiy, Cand Tech Sci, Cen Sci Res Elec Eng Lab, B. V. Smirnov, Engr, All-Union Inst for Electrification of Agr

"Elektrichestvo" No 10, pp 50-53

Studies use of rural distribution networks of 6-10 kv for hf communication. Considers distances involved, frequency range, and other hf parameters of high-voltage lines with steel conductors.

171T30

SMIRNOV, B. V.

"High-Voltage Dispatch Communication  $\pi$  Through Rural High-Voltage Supply Lines of Electric Systems." 19 Jun '51.

Dissertation for the degree of Cand. Tech. Sci. at the All-Union Inst. for the Mechanization and Electrification of Agriculture.

Official opponents were: Prof. S. A. Burguchev, Doctor of Tech. Sci. Prof. N. A. Sazonov and Cand. Tech. Sci. N. A. Ul'yanovskiy.

1. SMIRNOV, B. V.
2. USSR (600)
4. Rural Electrification
7. Preparing rural high-voltage networks for a high-frequency connection.  
Mekh. i elek. sel'khoz. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SMIRNOV, B.V., kandidat tekhnicheskikh nauk

Calculating attenuation of high-frequency electromagnetic energy in  
branched three-phase rural networks. Nauch.trudy VIESKH no.1:125-  
154 '54. (MIRA 8:11)

(Electric networks)

SMIRNOV, B.V.

Installation and equipment for high-frequency communication on  
networks. Biul. nauch.-tekh. inform. po elek. sel'khoz. no.1:  
52-53 '56. (MIRA 10:9)  
(Electric networks) (Telephone)

EBIN, L.Ye.; GANDELIN, A.M.; GILINSKIY, A.M.; GORNOVESOV, G.V.; ZLATKOVSKIY, A.P.; KAUFMAN, B.M.; KISELEV, N.A.; KULIKOV, P.Ye.; LEVIN, M.S.; SLAVIN, M.P.; SMIRNOV, B.V.; SMIRNOV, V.I.; SMIRNOVA, I.S.; TARASOVA, V.Ye.; CHEBOTAREV, V.I.; SHATS, Ye.L.; ENTIN, I.A.; IOSIPYAN, S.G., redaktor; SARKISYAN, A.M., redaktor; SMIRENSKIY, M.D., redaktor; TEPLITSKIY, Ya.S., redaktor; KOMAROVA, V.M., redaktor; GUREVICH, M.M., tekhnicheskiiy redaktor.

[Rules for the operation of electric installations in rural areas]  
Pravila tekhnicheskoi ekspluatatsii sel'skikh elektroustanovok.  
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 183 p. (MIRA 10:4)

1. Russia (1923- U.S.S.R.) Glvanoye upravleniye sel'skikh elektro-  
stantsii. (Electric power plants) (Electricity in agriculture)

SMIRNOV, Boris Vasilyevich

[Rural high-voltage electrification system] Sluzhebnaia sviaz' po  
sel'skim vysokovol'tnym setiam. Moskva, Gos.izd-vo sel'khoz. lit-ry,  
1957. 231 p. (MIRA 11:1)

(Electric lines)

*SMIRNOV, B. V.*

6346. **CALCULATION OF THE ATTENUATION OF HIGH-FREQUENCY CURRENTS IN 6-35 kV FEEDERS.** B. V. Smirnov. Elektrichestvo, 1957, No. 1, 46-51. In Russian.

The recent development of h.f. communication on 6-35 kV lines has focused attention upon the h.f. transmission characteristics of these lines. The existing instructions in the U.S.S.R. are drawn up for 110-220 kV lines of great length, the conductors of which consist exclusively of non-ferrous metals, whereas 6-35 kV lines and feeders, particularly in agricultural districts are utilizing steel conductors to an increasing degree. The present paper supplements the instructions for lines of the latter type. In the case of 6-35 kV lines using non-ferrous conductors in the range of 40-250 kc/s the procedure for measuring and calculating the h.f. parameters can be taken from the instructions. Special distinctions have to be made between lines more than 50 km long, between 15 and 20 km long, and shorter lines. Graphs are given showing attenuation v. frequency for various lengths of line and equations for determining losses at frequencies from 40-250 kc/s are presented.

B. V. Smirnov

3

*Revised*

*All-Union Sci.-Res. Inst. for Electrification of Agriculture*



SMIRNOV, B.V.; BYSTRITSKIY, D.N.; ZUL', N.M.; IOSIPYAN, S.G.; SERGO-  
VANTSEV, V.T.

[Basic rules pertaining to the volume of remote control to be  
installed in rural electric power stations and substations]  
Osnovnye polozheniia po ob"emu telemekhanizatsii sel'skikh  
elektricheskikh stantsii i podstantsii. Moskva, Otdel tekhn.  
informatsii, 1958. 16 p. (MIRA 13:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut elektri-  
fikatsii sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledo-  
vatel'skiy institut elektrifikatsii sel'skogo khozyaystva (VIESKh)  
(for Smirnov, Bystritskiy, Zul'). 3. Ministerstvo sel'skogo kho-  
zyaystva SSSR (for Iosipyan). 4. Moskovskiy institut mekhanizatsii  
i elektrifikatsii sel'skogo khozyaystva im. V.M.Molotova (MIMESKh)  
(for Sergoventsev).

(Electric power distribution)

ANDRIANOV, V.N., doktor tekhn.nauk; BERSENEV, Ye.Ye., inzh.; BYSTRITSKIY, D.N., kand.tekhn.nauk; GREBENNIKOV, A.F., kand.tekhn.nauk; GRETISOV, N.A., kand.tekhn.nauk; ZUYEV, V.A., kand.tekhn.nauk; KLIMOV, A.A., kand.tekhn.nauk; KOROLEV, V.F., kand.tekhn.nauk; KUDRYAVTSEV, I.F., kand.tekhn.nauk; KULIK, M.Ye., kand.tekhn.nauk; NAZAROV, G.I., kand.tekhn.nauk; OLMYNIK, N.P., inzh.; OSETROV, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand.tekhn.nauk; PCHELKIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGEYEV, A.S., inzh.; SKVORTSOV, P.F., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; URVACHEV, P.N., kand.tekhn.nauk; SHTRURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RUNOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; NIKITINA, V.M., red.; BALLOD, A.I., tekhn.red.

[Manual on the use of electric power in agriculture] Spravochnik po primeneniui elektorenergii v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 606 p. (MIRA 11:5)  
(Electricity in agriculture)

SERGOVANTSEV, V.T., kand.tekhn.nauk; YURASOV, V.V., kand.tekhn.nauk;  
 ALUKER, Sh.M., kand.tekhn.nauk; ANDRIANOV, V.N., doktor tekhn.  
 nauk; ASTAF'YEV, N.N., kand.tekhn.nauk; BUDZKO, I.A., akademik;  
 BYSTRITSKIY, D.N., kand.tekhn.nauk; VEYALIS, B.S., kand.tekhn.  
 nauk; GIRSHBERG, V.V., inzh.; GORSHKOV, Ye.M., inzh.; GRI-  
 CHEVSKIY, E.Ya., inzh.; ZAKHARIN, A.G., doktor tekhn.nauk;  
 ZLATOVSKIY, A.P., kand.tekhn.nauk; IOSIPYAN, S.G., inzh.;  
 ITSKOVICH, A.M., dotsent; KAUFMAN, B.M., inzh.; KVITKO, M.N.,  
 inzh.; KORSHUNOV, A.P., inzh.; LEVIN, M.S., kand.tekhn.nauk;  
 LOBANOV, V.N., dotsent; LITVINENKO, A.F., inzh.; MERKELOV,  
 G.F., inzh.; PIRKHAVKA, P.Ya., kand.tekhn.nauk; PRONNIKOVA,  
 M.I., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; FATYU-  
 SHENKO, S.G., inzh.; KHODNEV, V.V., inzh.; SHCHATS, Ye.L.,  
 kand.tekhn.nauk; EBIN, L.Ye., doktor tekhn.nauk; ENTIN, I.A.,  
 kand.tekhn.nauk; SILIN, V.S., red.; SMELYANSKIY, V.A., red.;  
 BALLOD, A.I., tekhn.red.; SMIRNOVA, Ye.A., tekhn.red.

[Handbook pertaining to the production and distribution of  
 electricity in agriculture] Spravochnik po proizvodstvu i  
 raspredeleniiu elektricheskoi energii v sel'skom khoziaistve.  
 Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 900 p. (MIRA 13:2)

1.Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
 V.I.Lenina (for Budzko).  
 (Rural electrification)

SMIRNOV, B., kand.tekhn.nauk; BYSTRITSKIY, D. Kand.tekhn.nauk, LUKOVNIKOV,  
A.; kand.tekhn nauk

Mobile power stations speed up mechanization. Nauka i pered.op.  
v sel'khoz. Nauka i pered.op.v sel'khoz. 9 no.12:44-47 D '59.  
(MIRA 13:4)

(Electric power plants)

SMIRNOV, B. V., Doc Tech Sci -- "Use of rural electric networks for dispatching in agriculture." Mos, 1960 (Mos Order of Lenin Agr Acad im K. A. Timiryazev). (KL, 1-61, 190)

-158-

SMIRNOV, B.V.; SARAPKIN, V.V.

Formation and nature of interference in 0.4 to 35 kv.  
power lines. Elektrosviaz' 14 no.7:66-74 J1 '60.  
(MIRA 13:7)

(Radio--Interference)  
(Electric lines--Overhead)

SMIRNOV, B.V., kand.tekhn.nauk; SARAPKIN, V.V., inzh.

Upper harmonics and combinations composing the voltage of power  
generators. Elek.sta. 31 no.6:68-72 Je '60. (MIRA 13:7)  
(Electric generators)  
(Electric power stations)

NAKHUTIN, Isaak Pinkhusovich; KUZNETSKIY, Gennadiy Ivanovich; SMIRNOV,  
B.V., nauchnyy red.; KOBRINSKAYA, M.V., red.; NESMYSLOVA, L.M.,  
tekhn. red.

[Manual on practical problems in electrical engineering] Posobie dlia  
prakticheskikh zaniatii po elektrotekhnike. Moskva, Vses. uchebno-  
pedagog. izd-vo Proftekhizdat, 1961. 66 p. (MIRA 14:8)  
(Electric engineering—Handbooks, manuals, etc.)



SMIRNOV, Boris Vasil'yevich, kand.tekhn.nauk; RUNOVA, L.M., red.;  
GUREVICH, M.M., tekhn.red.

[Communications in agriculture] Sviaz' v sel'skom khoziaistve.  
Izd.2., perer. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1961. 407 p.  
(MIRA 14:6)

(Agriculture)

(Telecommunication)

SMIRNOV, Boris Vasil'yevich; DUBROVSKIY, V.A., nauchnyy red.;  
MEL'NIKOVA, G.P., red.; PERSON, M.N., tekhn. red.

[Manual for young electricians working on rural wire broad-  
casting and communication systems] Spravochnik molodogo elektro-  
mekhanika po sel'skoi sviazi i radiofikatsii. Moskva, Proftekh-  
izdat, 1961. 431 p. (MIRA 15:7)  
(Electric engineering--Handbooks, manuals, etc.)

SMIRNOV, Boris Vasil'yevich, doktor tekhn. nauk; DUBROVSKIY, V.A.,  
red.; PEVZNER, V.I., tekhn. red.; FEDOTOVA, A.F., tekhn. red.

[Principles of electronics and telecommunication engineering]  
Osnovy elektroniki i tekhniki svyazi. Moskva, Sel'khozizdat,  
1962. 406 p. (MIRA 16:3)  
(Electronics) (Telecommunication)

SMIRNOV, B.V., doktor tekhn.nauk

Methods for preventing the distortion of remote control signals.  
in rural forked electric power distribution networks. Nauch. trudy  
VIESKH 11:205-230 '62. (MIRA 16:3)  
(Electric power distribution—Communication systems)  
(Remote control)

SMIRNOV, B.V., doktor tekhn.nauk; PETROV, V.M., inzh.

Study of square impulse transmission using 6 to 10 kv. power  
distribution and a zero sequence network. Nauch. trudy VIESKH  
11:231-261 '62. (MIRA 16:3)  
(Electric power distribution—Communication systems)

SMIRNOV, B.V., doktor tekhn.nauk

Radio and electronics in agriculture. Mekh. i elek. sots. sel'khoz.  
20 no.1:31-33 '62. (MIRA 15:2)  
(Radio in agriculture) (Electricity in agriculture)

SERGIYEVSKIY, A. S., inzh.; SMIRMCV, B. V., doktor tekhn. nauk, rukovoditel' raboty

Wider use of rural electric power distribution lines for telecommunication purposes. Mekh. i elek. sots. sel'khoz. 20 no.6:50-52 '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.

(Electric lines—Overhead)  
(Telecommunication)

SMIRNOV, Boris Vasil'yevich, doktor tekhn. nauk; IL'IN, Anatoliy Afanas'yevich, kand. tekhn. nauk; BYKHOVSKIY, Ya.L., kand. tekhn. nauk, retsenzent; TKACHENKO, L.N., inzh., red.izd-va; STARODUB, T.A., tekhn. red.

[Signal transmission using electric distribution networks]  
Peredacha signalov po raspredelitel'nyy elektricheskim setiam; osnovy teorii i rascheta. Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1963. 422p. (MIRA 17:1)



SMIRNOV, B.V., doktor tekhn.nauk, prof.; PETROV, V.P., inzh.

Transmission of remote control signals using high-voltage distribution lines with zero-sequence network. Elektrichestvo no.9:27-33 S '63.  
(MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.

SOFRONOV, P.A.; KRAYTSBERG, M.I.; MYL'NIKOV, I.I.; SMIRNOV, B.V.

Silicon rectifiers for enterprises of the refractories industry.  
Ogneupory 29 no. 5:201-205 '64. (MIRA 17:7)

1. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V.  
Kuybysheva (for Sofronov, Kraytsberg). 2. Chasov-Yarskiy kombinat  
ogneupornykh izdeliy (for Myl'nikov).

L 22592-66

ACC NR: AP6013001

SOURCE CODE: UR/0105/65/000/006/0091/0091

AUTHOR: Andrianov, V. N.; Budzko, I. A.; Venikov, V. A.; Demin, A. V.; Gorodskiy, D. A.; Grudinskiy, P. G.; Zakharin, A. G.; Krasnov, V. S.; Levin, M. S.; Listov, P. N.; Markovich, I. M.; Mel'nikov, N. A.; Nazarov, G. I.; Razevig, D. V.; Smirnov, B. V.; Stepanov, V. N.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Yakobs, A. I.

ORG: none

TITLE: Doctor of technical sciences, Professor L. Ye. Ebin (on the occasion of his 60th birthday

SOURCE: Elektrichestvo, no. 6, 1965, 91

TOPIC TAGS: scientific personnel, electric network, lightning

ABSTRACT: Professor Lev Yefimovich Ebin, 60, graduated in 1928 from the Kiyevskiy elektrotekhnicheskiy institut (Kiyev Electrotechnical Institute). Between 1929 and 1936, he worked in the Donenergo system and published various original papers on lightning protection and grounding devices. From 1936 EBIN works at the Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva (All-Union Scientific Research Institute for the Electrification of Agriculture) where he heads a laboratory. In 1937, he defended his candidate's dissertation and in 1951 his Ph. D. Thesis dealing with studies of the nonsymmetrical operating conditions of electrical networks and of stationary and nonstationary electro-thermal processes in the

Card 1/2

UDC: 621.31

SOFRONOV, P.A.; GLUSHKOV, G.V.; MYL'NIKOV, I.I.; SMIRNOV, B.V.

- Substation with semiconductor rectifiers for current supply of electric trucks. Ogneupory 30 no.10:7-9 '65. (MIRA 18:10)

1. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V. Knybysheva (for Sofronov, Glushkov). 2. Chasov-Yarskiy kombinat ogneupornykh izdeliy (for Myl'nikov).

ACCESSION NR: AP4011184

S/0286/64/000/001/0048/0049

AUTHOR: Korenchenko, M. M.; Bogoslovskiy, K. Ye.; Kutuzova, G. A.;  
Lelekov, V. S.; Smirnov, B. V.

TITLE: A method for calibrating acceleration pickups working under  
pulse conditions. Class 42, No. 159668

SOURCE: Byul. izobret. i tovarn. znakov, no. 1, 1964, 48-49

TOPIC TAGS: acceleration pickup, accelerometer, accelerometer  
calibration, acceleration pickup calibration

ABSTRACT: The patent describes a method for calibrating accelera-  
tion pickups working under pulse conditions in a shock tube under  
the action of a gas dynamic pulse load. For determining the sensi-  
tivity of the pickup in a wide range of accelerations, the pickup  
is mounted in a sliding piston inside the shock tube. The displace-  
ment of the piston due to the action of the gas dynamic pulse load  
determines the sensitivity of the pickup. (see Enclosure 01).

ASSOCIATION: none

Sub: 9174462

Card. 1/1

SMIRNOV, B.V.

Case of erroneously diagnosed acute cholecystitis in tuberculous  
lesions of the lymph nodes of the abdominal cavity. Probl.tub.  
38 no.4:101-102 '60. (MIRA 14:5)  
(GALL BLADDER—DISEASES) (LYMPHATICS—TUBERCULOSIS)

SMIRNOV, B. V.

SMIRNOV, B.V.

Aerolog dlia zamera skorosti samoleta otnositel'no vozdukha. (TSAGI. Trudy, 1939, no.389, p. 10-20, illus., diagrs.)

Title tr.: Air log for measuring the speed of aircraft in relation to the surrounding air.

QA911.M65 no.389

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

SMIRNOV, B.V., ~~land~~.tekhn.nauk; DOMASHENKO, Yu.N., inzh.

Assembling precast elements of a new-type industrial building.  
Prom.stroi. 39 no.8:23-29 '61. (MIRA 14:9)  
(Moscow—Precast concrete construction)



DANILEVSKIY, Vladimir Viktorovich, dots.; Prinimal uchastiye POLUBINSKIY, V.I., yurist; SAMOKHOTSKIY, A.I., retsenzent; KHOLIN, V.A., retsenzent; STANKEVICH, V.G., inzh., retsenzent; SMIRNOV, B.V., nauchnyy red.; SAMSONOVA, M.T., red.izd-va; YEZHOVA, L.L., tekhn. red.

[Manual for technicians in machinery manufacture] Spravochnik tekhnika-mashinostroitel'ia. Moskva, "Vysshaya shkola," 1962. 644 p. (MIRA 15:6)

1. Chleny predmetnoy komissii Moskovskogo mashinostroitel'nogo tekhnikuma im. Dzerzhinskogo (for Samokhotskiy, Kholin, Stankevich). (Mechanical engineering)

SMIRNOV, B.V.

Case of necrosis of large segments of the liver parenchyma following gastric resection. Sov. med. 25 no.9:134-135 9 '61. (MIRA 15:1)

1. Iz khirurgicheskogo otdeleniya Klinskoy gorodskoy bol'nitsy  
No.1 (glavnyy vrach B.V.Smirnov). (LIVER NECROSIS)  
(STOMACH SURGERY)

PRESSMAN, L.P., doktor med. nauk, red.; MAKHOV, H.I., prof. red.;  
ZAKHAR'YAN, S.T., st. nauchn. sotr., red.; BRYK, V.Ye.,  
kand. med. nauk, red.; ZAVRAZHIN, A.M., red.; KAYAVIL'ER,  
I.M., red.; SIERNOV, B.V., red.; LEUSHET, E.A., kand. med.  
nauk, red.

[Problems of practical medicine] Voprosy prakticheskoi me-  
ditsiny; sbornik trudov. Moskva, 1963. 254 p.  
(MIRA 17:9)

1. Moscow. Moskovskiy oblastnoy nauchno-issledovatel'skiy  
institut imeni N.F.Vladimirovskogo. 2. Zaveduyushchiy Pervoy  
khirurgicheskoy klinikoy Moskovskogo oblastnogo nauchno-  
issledovatel'skogo klinicheskogo instituta im. N.F.Vladimir-  
skogo (for Makhov).

SMIRNOV, B.V.; GERASIMOV, V.I.

Using the emanation method in prospecting for copper pyrite  
deposits. Razved.i okh.nedr 26 no.5:19-21 My '60.  
(MIRA 13:7)

1. Kirovogradskaya geologorazvedochnaya ekspeditsiya.  
(Chalcopyrite) (Prospecting)

SMIRNOV, B.V.

Quantitative relationship between gold and silver in copper-pyrite deposits. Razved. i okh. nedr 26 no.11:44-45 N '60. (MIRA 13:12)

1. Verkhne-Ural'skaya kompleksnaya geologorazvedochnaya partiya.  
(Precious metals) . (Chalcopyrite)

YEGOROV, Sergey Vasil'yevich, kand. tekhn.nauk, dots.; CHERVYAKOV,  
Arkadiy Grigor'yevich, kand. tekhn. nauk, dots. Prinimal  
uchastiye BESPAKHOTNYY, P.D., kand. tekhn. nauk; SMIRNOV,  
B.V., red.

[Metal cutting and metal-cutting tools; laboratory work] Re-  
zanie metallov i rezhushchii instrument; laboratornyi prakti-  
kum. Moskva, Gos.izd-vo "Vysshaya shkola," 1963. 196 p.  
(MIRA 17:4)

PALEY, M.M., kand. tekhn. nauk, dots.; ALEKSEYEV, G.A., inzh.,  
retsenzent; SMIRNOV, B.V., inzh., red. [deceased]

[Technology in the manufacture of metal-cutting tools]  
Tekhnologiya proizvodstva rezhushchego instrumenta. Mo-  
skva, Mashgiz, 1963. 483 p. (MIRA 17:4)

PRESSMAN, L.P., prof., red.; FRANTSEV, V.I., doktor med. nauk, red.;  
LEONENKO, A.V., red.; SMIRNOV, B.V., red.; SHUSTER, M.A.,  
kand. med. nauk, red.; ZAVRAZHIN, N.M., red.; URSCV, I.G.,  
kand. med. nauk, red.

[Problems of clinical medicine and occupational pathology]  
Voprosy klinicheskoi meditsiny i profpatologii. Moskva,  
1965. 143 p. (MIRA 18:4)

1. Moscow. Oblastnoy nauchno-issledovatel'skiy klinicheskiy  
institut.



SMIRNOV, Boris Vasil'yevich; LEVIN, N.Ye., red.

[Laboratory work for courses in "Radio engineering" and  
"Communication in agriculture" and methods for conducting  
them] Laboratorno-prakticheskie zaniatiia po kursam  
"Radiotekhnika" i "Sviaz' v sel'skom khoziaistve" i meto-  
dika ikh provedeniia. Moskva, Vysshiaia shkola, 1965. 207 p.  
(MIRA 18:8)

SMIRNOV, B. Ye.

Preparation of the apparatus for drip-transfusion of the blood and blood substitutes. Sovet. med. 16 no. 7:26-27 July 1952. (CLML 22:4)

1. Head of the Surgical Division of Zeyskiy Rayon Hospital, Amur Oblast.

SMIRNOV, B.Ye.

Application of an anastomosis between the duodenum and the small intestine; abstract. *Khirurgia* 34 no.12:98 D '58. (MIRA 12:1)

1. Iz khirurgicheskogo otdeleniya Zeyskoy rayonnoy bol'nitsy Amirskoy oblasti.

(INTESTINES--SURGERY)

BONDARENKO, V.; LAPIN, A.; SMIRNOV, D.

State Bank's business and people. Den. i kred. 19 no.9:73-80  
S '61. (MIRA 14:9)

1. Upravlyayushchiy Kazakhskoy respublikanskoy kontoroy Gosbanka  
(for Bondarenko). 2. Glavnyy bukhgalter Vologodskoy oblastnoy  
kontoroy Gosbanka (for Lapin). 3. Upravlyayushchiy Volokolamskim  
otdeleniyem Gosbanka (for Smirnov).  
(Bank and banking)

SMIRNOV, D.

Press for cutting sweet butter. Khol.tekh. 30 no.4:65-66 O-D '53.  
(MLRA 7:3)

1. Lenkhladokombinat.

(Butter)

SMIRNOV, D.

For a clear delineation between maintenance and current repairing  
of automobiles. Avt.trans. 32 no.3:15 Mr '54. (MLRA 7:8)

1. Vtoroy gruzovoy avtopark tresta "Lenaytogruz".  
(Automobiles--Maintenance) (Automobiles--Repairing)

DANILOV, V.; SMIRNOV, D.

Efficient automobile servicing in garages. Avt. transp. 35 no.5: Insert  
My '57. (MLRA 10:6)

(Automobiles--Maintenance)

SMIRNOV, D.

Mechanizing the dismounting of large tires. Avt. transp. 36 no.11:50  
N '58. (MIRA 11:11)

(Motortrucks--Tires)



SMIRNOV, D.

Efficient organization of big automotive units. Avt.transp. 37  
no.1:33-35 Ja '59. (MIRA 12:2)  
(Transportation, Automotive)

SMIRNOV, D.A.

Word association test in medical practice. Zh. vysshei nerv. deiat.  
3 no.3:408-415 May-June 1953. (CIML 25:4)

1. Krasnoye Krivorozh'ye Sanatorium No. 21 VTsSPS, Alushta.

SEMENOV, Manuil Grigor'yevich; SMIRNOV, D.A., red.

[A year of fishing] God rybclova. Moskva, "Sovetskaia  
Rossiia," 1964. 132 p. (MIRA 17:6)

SMIRNOV, D.D.

Tissue therapy in *gynecologic* diseases. Akush. gin. no.3:5-7  
May-June 1951. (CML 21:1)

1. Of Nerekhta Maternity Home (Head Physician -- D. D. Smirnov).

BELEVTSSEV, Ya.N.; BEYGULENKO, I.L.; BETIN, D.I.; BORISENKO, V.G.;  
GUBKINA, N.N.; DZHEDZALOV, A.T.; ZHILKINSKIY, S.I., prof.;  
ZALATA, L.F.; KAZAK, V.M.; MALYUTIN, Ye.I.; MUROMTSEVA, Z.G.;  
NATAROV, V.D., doktor geol.-miner. nauk: PANASENKO, V.N.;  
PITADE, A.A.; RADUTSKAYA, P.D.; SLEKTOR, S.M.; SMIRNOV, D.I.;  
TOKHTUYEV, G.V., kand. geol.-min. nauk; FOMENKO, V.Yu.;  
SLENZAK, O.I., red.izd-va; MATVEYCHUK, A.A., tekhn. red.

[Methodological guide for the geological service for the  
prospecting and mining of Krivoy Rog type deposits] Metodiche-  
skoe rukovodstvo dlia razvedochnoi i rudnichnoi geologicheskoi  
sluzhby mestorozhdenii krivorozhskogo tipa. Pod red. IA.N.  
Belevtseva. Kiev, Izd-vo AN USSR, 1963. 395 p.

(MIRA 16:12)

1. Krivoy Rog. Gornorudnyy institut. 2. Chlen-korrespondent  
AN Ukr.SSR (for Belevtsev).

(Krivoy Rog Basin--Engineering geology)

SMIRNOV, D.I.

Experimental work on the make-up of the world atlas. Sbor. st. po  
kart. no.9:19-21 '56. (MIRA 10:8)

(Map printing)

SMIRNOV, D.I.  
V.D.

SEMENOV, A.I., otv.red.; FILIPPOV, Yu.V., prof., doktor tekhn.nauk, red.;  
BASHLAVIN, V.A., kand.tekhn.nauk, red.; VOYNOVA, V.V., red.; GURARI,  
Ye.L., kand.ekonom.nauk, red.; GUREVICH, I.V., red.; ZHIV, I.S., red.;  
ZARUTSKAYA, I.P., red.; ZASLAVSKIY, I.I., red.; KOZLOV, F.M., red.;  
NIKISHOV, M.I., kand.geograf.nauk, red.; SADCHIKOV, S.F., red.;  
TIKHOMIROV, D.I., red.; TUTOCHKINA, V.A., red.; BALANTSEVA, I.A., red.  
kart; BOGDANOVA, L.A., red.kart; BOCHAROVA, I.L., red.kart; VENEVTSEVA,  
G.P., red.kart; VOLKOVA, A.P., red.kart; GOSTEVA, N.A., red.kart;  
YEFIMOVA, G.N., red.kart; ZHIV, D.I., red.kart; KRAVCHENKO, A.V., red.  
kart; KUBRIKOVA, H.S., red.kart; KUZNETSOVA, N.A., red.kart; KURSAKOVA,  
I.V., red.kart; LOBZOVA, N.A., red.kart; MERTSALOVA, L.M., red.kart;  
MOSTMAN, S.L., red.kart; PANFILOVA, M.V., red.kart; SEMENOVA, V.D.,  
red.kart; SMIRNOVA, T.N., red.kart; TERESHKOVA, V.S., red.kart;  
FEDOROVSKAYA, G.P., red.kart; FETISOVA, N.P., red.kart; FIL'GUS, Z.Kh.,  
red.kart; SHAPIRO, Ye.M., red.kart; SHISHKIN, Ye.A., red.kart; YASHU-  
NICHKINA, Ye.G., red.kart. V razrabotke kart prinimali uchastiye:  
ALISOV, B.A., prof.; BERZINA, M.Ya.; VASILEVSKIY, L.I.; GAVRILOVA,  
S.A., kand.geograf.nauk; GINZBURG, G.A., kand.tekhn.nauk; DOBOSHINSKAYA,  
I.B.; YEVSTIGHNEYEVA, A.I.; LAVRENKO, Ye.M., prof.; LOZINOVA, V.M., kand.  
tekhn.nauk; MILANOVSKIY, Ye.Ye., kand.geologo-mineral.nauk; MIKHAYLOV,  
A.A., prof.; MYSHKIN, Ye.P.; PUZANOVA, V.F., kand.geograf.nauk;  
(Continued on next card).

SEMENOV, A.I.---(continued) Card 2.

ROZOV, N.N., prof.; ~~SMIRNOV, D.I.~~; TARASOV, A.P.; TROFIMOVSKAYA, Ye.A., kand.geograf.nauk; TUGOLESOV, D.A., kand.geologo-mineral. nauk. ZININ, I.F., tekhn.red.

[Geographical atlas for secondary school teachers] Geograficheskii atlas; dlia uchitelei srednei shkoly. Izd.2. Moskva, Glav.upr. geodezii i kartografii MVD SSSR, 1959. 191 p. (MIRA 12:11)

1. Predstavitel' Nauchno-issledovatel'skogo instituta metodov obucheniya Akademii pedagogicheskikh nauk RSFSR (for Zaslavskiy).
2. Predstavitel' Upravleniya shkol Ministerstva prosvyashcheniya RSFSR (for Tutochkina).
3. Chleny-korrespondenty AN SSSR (for Lavrenko, Mikhaylov).

(Maps)





Results of the Competition for the Best Improving Suggestion

[illegible]

277

3(2)

AUTHOR:

Smirnov, D. I.

SOV/6-59-8-13/27

TITLE:

On the Use of Continuous Shade in the Publication of Maps  
(O primeneniі sploshnoy otmyvki pri izdaniі kart)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 8, pp 55-56 (USSR)

ABSTRACT:

One of the new methods used in the publication of maps is the printing of the base coloring of (continental) maps from the screen forms. The picture produced in this way is similar to a color photography reproducing a relief model. It is distinguished from an ordinary map by the fact that the picture covers the entire continental area and not only the shaded mountain slopes as it is the case with the ordinary shade. The greatest three-dimensional effect is produced by applying under the base colors the complete relief picture in achromatic colors (black or grey) so that the colors look even more harmonious and the plasticity of the relief forms is increased. At the NRKCh a continuous shade has been used since 1947. It has been used for tourist maps of high-mountain regions, for world maps at a small scale in the second volume of the Morskoy atlas (Sea Atlas), for school maps 1 : 5,000,000 , for the physical chart of the USSR

Card 1/2

On the Use of the Continuous Shade in the  
Publication of Maps

SOV/6-59-8-13/27

for primary schools, and for the map of zones of nature of the USSR. A number of recommendations is given with regard to the execution of this method. It is also pointed out that such relief maps are to be found in great numbers in foreign countries - Germany, Great Britain, and the United States.

Card 2/2

SMIRNOV, D.I.

New type of tourist maps. Geod.i kart. no.6:65-67 Je :62.  
(MIRA 15:8)  
(Map printing)

SMIRNOV, D. I.,

"On the Reflex from the Lesser Circulation Vessels to Lymph and Blood Vessels."  
(Dissertation for Degree of Candidate for Medical Sciences) Bashkir State Medical  
Inst imeni 15th Anniversary of the VLKSh (All-Union Leninist Youth Communist League),  
Ufa, 1955

SO: M-1036 28 Mar 56

SMIRNOV, D. I.

USSR/Medicine - Neurophysiology

FD-2803

Card 1/1 17, 5/19

Author : Smirnov, D. I.

Title : Reflex from the superior vena cava on lymphatic vessels

Periodical : Byul. eksp. biol. i med. 6, 19-21, June 1955

Abstract : Author describes his experiments proving that reflex connections exist between the upper vena cava and lymphatic vessels. This confirms data on the reflex ties between the venous and the lymphatic systems. It also shows that increase of venous pressure in various sections of the venous system can affect the lymphatic vessels. 6 references, 6 USSR, 4 since 1940, graphs.

Institution : Chair of Normal Physiology (Head: V. V. Petrovskiy), Bashir Medical Institute, Ufa

Submitted : 5 July 1954

USSR/Medicine - Physiology

SMIRNOV, D. I.

FD-3380

Card 1/1      Pub. 17 - 4/22

Author      :   Smirnov, D. I.

Title      :   Reflexes from the [blood] vessels of the lesser pulmonary circle  
                 on blood and lymphatic vessels

Periodical   :   Byul. eksp. biol. i med. 8, 14-18, Aug 1955

Abstract    :   Author investigated the part played by the lymphatic system in  
                 the reflex regulation of circulation and particularly the appear-  
                 ance of reflex activities in lymphatic vessels on the lesser pul-  
                 monary circle. He was also interested in the reflex activity from  
                 pulmonary vessels on other divisions of the cardiovascular system.  
                 Dogs under narcosis and being given artificial respiration were  
                 used. Author used the perfusion method while studying the thoracic  
                 lymphatic field. Irritation of the pulmonary branches of the vagus  
                 nerve and emoblism of the lesser circle were produced with an emul-  
                 sion of lycopodium. 14 references, 11 USSR. Graphs.

Institution   :   Chair of Normal Physiology (Head, Prof. V. V. Pežrovskiy), Bashkir  
                 Medical Institute, Ufa

Submitted    :   5 July 1954



PETROVSKIY, V.V.; SMIRNOV, D.I. (Ufa)

New discoveries in the physiology of the lymphatic system. Usp.sovr.  
biol. 43 no.3:305-318 My-Je '57. (MLRA 10:7)  
(LYMPHATICS) (NERVOUS SYSTEM)

SMIRNOV, D.I. (Ufa)-----

State of the lymph vessels in various forms of experimental shock  
and collapse. Pat. fiziol. i eksp. terap. 4 no. 5:19-25 S-0 '60.  
(MIRA 13:12)

1. Iz kafedry fiziologii (zav.-prof. V.V. Petrovskiy) Bashkirskogo  
meditsinskogo instituta.

(SHOCK) (LYMPHATICS)

KOTOVA, G.N.; PETROVSKIY, V.V.; SMIRNOV, D.I.

Effect of various factors on venous tone. Fiziol.zhur. 47 no.2:  
237-246 F '61. (MIRA 14:5)

1. From the Normal Physiology Chair, Bashkirian Medical Institute,  
Ufa.

(VEINS)

h1592  
S/247/62/012/005/002/004  
D296/D307

27 5100

AUTHOR: Smirnov, D.I.

TITLE: Switch-over of conditioned reflexes to time

PERIODICAL: Zhurnal vysshey nervnoy deyatel'nosti imeni I.P. Pavlova, v. 12, no. 5, 1962, 932 - 938

TEXT: 'Switch-over' is a term denoting the changing of a positive into a negative conditioned response or vice versa, following application of any other stimulus associated with the original conditioned stimulus. This study is an attempt to establish a) whether application of such secondary stimuli or 'switches' can induce an animal to develop 2 different rhythms of one and the same response and b) whether alternating application of these 'switches' can cause an animal to change from one rhythm to the other - in other words, can conditioned reflexes be based on the perception of 'pure' time. The standard response was the pulling of a ring by a rabbit, reinforced when rewarded by a piece of carrot. At intervals of 5 minutes the sound of a bell signalled reinforcement of the response by food; later the bell was stopped and reinforcement followed every 5

Card 1/2

Smirnov, D. M.

<sup>7</sup>  
Aphyllin. A. B. Labenskii and D. M. Smirnov. U.S.  
S.A. 108,912, Aug. 25, 1957. An aphyllinic acid salt is  
treated with BaO, the liberated aphyllinic acid heated till it  
melts, and aphyllin sepd. in vacuo at 195-200°. M. Hirsch

11 4Bd  
4E4  
8  
B3

SMIRNOV, D.M.

Groups solvable generally and their group rings. Dokl. AN SSSR  
155 no. 3:535-537 Mr '64. (MIRA 17:5)

1. Novosibirskiy gosudarstvennyy universitet. Predstavleno  
akademikom A.I.Mal'tsevim.

STEFAN, D. V.

"Certain Properties of Resolvable and General-Resolvable Groups." S.M. 3 Dec 51,  
Moscow State Pedagogical Inst in honor V. I. Lenin.

Dissertations presented for science and en ineering degrees in Moscow during 1951.

Co: Sov. No. 400, 2 Mar 55.

SMIRNOV, D. M.

Smirnov, D. M. On the theory of locally nilpotent groups.  
Doklady Akad. Nauk SSSR (N.S.) 76, 643-646 (1951).  
(Russian)

A subgroup  $H$  of a group  $G$  is called infra-invariant in  $G$  provided for every inner automorphism  $\varphi$  of  $G$ , either  $\varphi(H) \subseteq H$  or  $\varphi(H) \supseteq H$ . The concepts of infra-invariant subgroup and normal subgroup coincide not only when  $G$  is periodic, but also when  $G$  is locally nilpotent. A group is Hamiltonian when each of its cyclic subgroups is infra-invariant. Let the group  $G$  have an upper central series  $1 = Z_0 \subset Z_1 \subset \dots \subset Z_\gamma = G$  with  $\gamma \leq \omega$  such that the maximal periodic subgroup of each  $Z_n/Z_{n-1}$ , for  $n \geq 2$ , satisfies the minimal condition for subgroups; if  $Z_1$  is finite, so is  $G$ ; if  $Z_1$  is periodic,  $G$  need not be. If a torsion-free group has an upper central series with  $\gamma \leq \omega$  and if  $Z_1$  contains no complete subgroup, then neither  $G$  nor any factor of the series contains any complete subgroup. In a locally nilpotent torsion-free group the normalizer of any servant subgroup is also servant. Other results pertain to Abelian subgroups of types  $A_1, A_2, A_3$  as classified by Mal'cev [Doklady Akad. Nauk SSSR (N.S.) 67, 23-25 (1949); these Rev. 11, 78].  
R. A. Good (College Park, Md.).

Source: Mathematical Reviews,

Vol 12 No. 8



Math (3)  
2

Mathematical Reviews  
Vol. 14 No. 7  
July - August, 1953  
Algebra

Gluškov, V. M. On the central series of infinite groups.  
Mat. Sbornik N.S. 31(73), 491-496 (1952). (Russian)  
In a group with an ascending [descending] central series,  
a so-called ZA-group [ZD-group], the length of the upper  
[lower] central series is called the ZA-class [ZD-class] of  
the group. Several questions generalizing to the transfinite  
case known facts about groups with finite ZA-class or

4/1/54 (over)

$ZD$ -class are answered. Foremost is the result that for every ordinal  $\gamma$ , there exists a  $ZA$ -group with  $ZA$ -class  $\gamma$ . But, moreover, there exists such a group with the additional property of being a  $ZD$ -group with  $ZD$ -class not exceeding  $\omega$ . This contrasts the fact that a  $ZA$ -group which has a finite  $ZD$ -class must have its  $ZA$ -class also finite. For every ordinal  $\gamma \geq \omega + 1$ , there exists a  $ZA$ -group with  $ZA$ -class  $\gamma$  which is not a  $ZD$ -group. Since [according to the (unavailable) dissertation of D. M. Smirnov, Ivanovskii Gos. Pedagog. Inst., 1951] the  $ZD$ -class of a  $ZA$ -group with  $ZA$ -class  $\omega$  can not exceed  $\omega + 1$ , only two possibilities exist for the  $ZD$ -class, namely,  $\omega$  and  $\omega + 1$ ; examples show that each possibility can be realized. If one of the maximal abelian normal subgroups  $A$  of a  $ZA$ -group  $G$  is contained in a hypercenter with finite ordinal, then the  $ZA$ -class of  $G$  is known [using the cited dissertation] to be finite; by contrast, if  $A$  is contained in a hypercenter with ordinal not exceeding  $\omega$ , then the  $ZA$ -class of  $G$  can be arbitrary. All these results follow readily from the main theorem asserting, for arbitrary ordinal  $\gamma$  and arbitrary field  $P$ , the existence of a group of type  $P_\gamma$ . A complete description of the so-called type  $P_\gamma$  is too lengthy to be cited here. *R. A. Good.*

SMIRNOV, D. M.

USSR/Mathematics - Modern Algebra,  
Automorphism

11 Jun 52

"Automorphisms of Solvable Groups," D. M. Smirnov,  
Ivanov State Pedagogical Inst

"Dok Ak Nauk SSSR" Vol LXXXIV, No 5, pp 891-894

Studies the periodic groups of automorphisms of  
solvable  $A_2$ -groups (cf. A. I. Mal'tsev, "Matemat  
Sbor" Vol XXVIII, No 3, 567 1951). Acknowledges  
the helpful suggestions of A. I. Mal'tsev. Sub-  
mitted by Acad O. Yu. Schmidt 17 Apr 52.

223T75

SMIRNOV, D. M.

PA 246T93

USSR/Mathematics - Automorphisms

Mar/Apr 53

"Groups of Automorphisms of Resolvable Groups,"  
D.M. Smirnov, Ivanovo

"Matemat Sbornik" Vol 32 (74), No 2, pp 365-384

Article investigates groups of automorphisms of resolvable  $A_3$  groups. Some of the results obtained are similar to those of A.I. Mal'tsev. "Certain Classes of Infinite Resolvable Groups" ("Matemat Sbornik" 28(70) (1951), 567-588) on matrix groups. The problem of whether the group of all automorphisms of a resolvable  $A_3$  group admits isomorphic representation by matrices remains unsolved for the time being.

246T93

SMIRNOV, D.M.

Mathematical Reviews  
Vol. 15 No. 4  
Apr. 1954  
Algebra

8-24-54  
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3  
① *Math*  
Smirnov, D. M. On groups with upper central series.

Mat. Sbornik N.S. 33(75), 471-484 (1953). (Russian)

Section 1 is devoted to the following theorem: if the upper central series of a group has length  $\omega$ , then at least one of its factors does not satisfy the minimal condition for servant subgroups. Section 2 provides the proofs for some of the results announced in an earlier paper by the author [Doklady Akad. Nauk SSSR (N.S.) 76, 643-646 (1951); these Rev. 12, 587].

R. A. Good (College Park, Md.).

SMIRNOV, D.M.

*Math* ✓ Smirnov, D. M. On a class of infinite groups. Ivanov.  
Gos. Ped. Inst. Uč. Zap. Fiz.-Mat. Nauk 5 (1954),  
 57-60. (Russian)  
 In a group a finite normal series every infinite factor of  
 which is commutative is called a  $B$ -series. A group having  
 a  $B$ -series is called a  $B$ -group. The principal result states  
 that every  $B$ -group is the extension of a solvable group by  
 a semisimple finite group. Numerous properties are listed  
 for  $B_i$ -groups, where, for  $i=1, 2, 3, 4, 5$ , a group is called  
 a  $B_i$ -group if it has a  $B$ -series; the abelian factors of which  
 have type  $A_i$  in the sense of Mal'cev [Mat. Sb. N.S.  
 28(70) (1951), 567-588; MR 13, 203]. R. A. Good.

*Smirnov*

AUTHOR: Smirnov, D.M. (Ivanovo) SOV/42-13-3-24/41  
TITLE: Some Remarks on Solvable Groups of Finite Rank (Neskol'ko  
zamechaniy o razreshimyykh gruppakh konechnogo ranga)  
PERIODICAL: Uspechi matematicheskikh nauk, 1958, Vol 13, Nr 3, pp 236-237 (USSR)  
ABSTRACT: The author considers properties of solvable groups of the types  
 $A_3$  and  $A_4$  in the classification of Mal'tsev (see Matematicheskiy  
sbornik, 1951, Vol 28, pp 567-588).  
Theorem: Every solvable  $A_4$ -group is closed.  
Theorem: The group of all automorphisms of a solvable  $A_4$ -group  
is finite or countable.  
Theorem: A solvable  $A_4$ -group cannot be isomorphic to one of its  
real factor groups.  
For the  $A_3$ -groups these assertions in general are not valid.

Card 1/1

SMIRNOV, D.M.; TAYTSLIN, M.A.

On finitely approximated Abelian groups with multiple operators.  
Usp.mat.nauk 17 no.5:137-142 3-0 '62. (MIRA 15:12)  
(Abelian groups)



SMIRNOV, D.M.

Reduced free multioperator groups. Dokl. AN SSSR 150 no.1:44-47  
My '63. (MIRA 16:6)

1. Predstavleno akademikom A.I.Mal'tsevim.  
(Groups, Theory of)

SMIRNOV, D.M.

Automorphism groups of group rings of right-ordered groups. Alg.  
i log. 4 no.1:31-45 '65. (MIRA 18:5)

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Ordered groups with multiple operators. Sib.mat.zhur. 6 no.2:433-458  
Mr-Ap '65. (MIRA 18:5)

SMIRNOV, D.M. (Novosibirsk)

Generally soluble groups and their group rings. Mat. sbor. 67  
no.3:366-383 J1 '65. (MIRA 18:9)